

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P798173

Luminaire Tested: 14GRSCT3-FGW080-UNV-HIGH-4000K

Issue Date: 3/16/2024

Test Information

Test Method: LM-79-2019
Report Number: P798173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P291572)
Test Lab: INNOVATION CENTER
Issue Date: 3/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 14GRSCT3-FGW080-UNV-HIGH-4000K
Description: GRLED Selectable
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

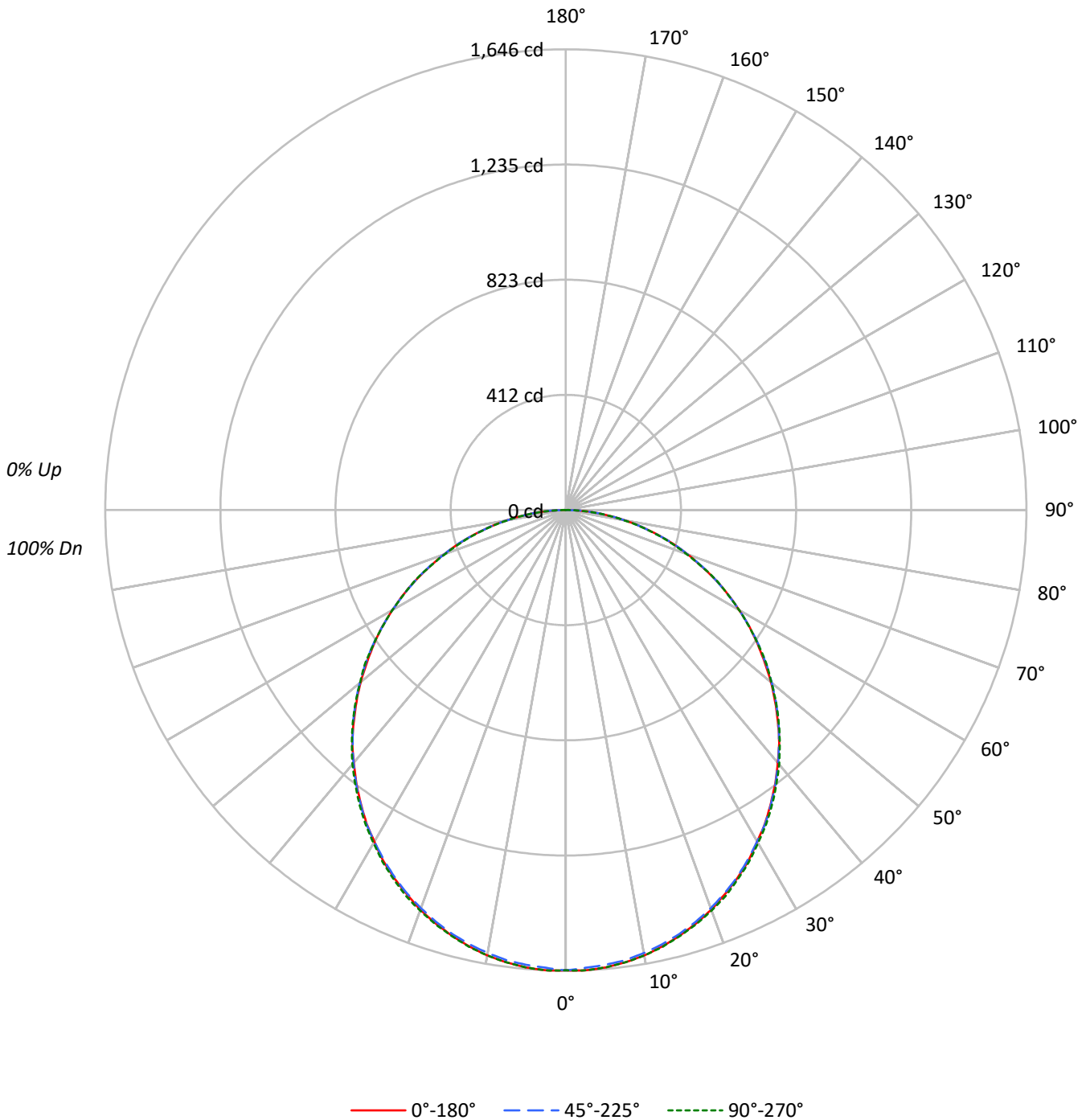
Lumens per Lamp: N/A
Luminaire Lumens: 4702.7 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.24 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 52.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	108	103	99	95	106	101	97	93	97	94	91	93	90	88	89	87	85	85	85	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	71	71	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	60	60	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	51	51	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	45	45	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	39	39	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	35	35	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	28	28	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	26	26	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4426	4426	4426
5°	4430	4406	4430
10°	4416	4391	4416
15°	4385	4368	4389
20°	4352	4335	4361
25°	4308	4298	4321
30°	4250	4250	4270
35°	4198	4203	4222
40°	4140	4146	4167
45°	4080	4091	4097
50°	4008	4022	4015
55°	3929	3950	3943
60°	3851	3851	3851
65°	3762	3762	3782
70°	3644	3644	3608
75°	3516	3500	3486
80°	3357	3332	3305
85°	3152	3112	3013

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 67.5°

Vertical Angle: 45°

Luminance: 4097 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.5	3.3
10°-20°	443.9	9.4
20°-30°	668.9	14.2
30°-40°	801.6	17.0
40°-50°	828.9	17.6
50°-60°	751.6	16.0
60°-70°	584.0	12.4
70°-80°	356.8	7.6
80°-90°	111.6	2.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1268.3	27.0
0°-40°	2069.9	44.0
0°-60°	3650.3	77.6
0°-90°	4702.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4702.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1640	1638	1631	1638	1640	156
15°	1574	1574	1568	1575	1575	444
25°	1451	1451	1448	1457	1455	668
35°	1278	1279	1279	1285	1285	800
45°	1072	1073	1075	1076	1076	827
55°	838	840	842	842	840	749
65°	591	591	591	588	594	584
75°	338	338	337	335	335	358
85°	102	99	101	98	98	113
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644.7	1644.7	1644.7	1644.7	1644.7
2.5°	1646.3	1644.7	1637.2	1644.7	1646.3
5°	1640.1	1638.5	1631.0	1638.5	1640.1
7.5°	1629.7	1629.7	1622.2	1629.7	1629.7
10°	1616.1	1614.8	1607.0	1614.8	1616.1
12.5°	1596.5	1596.5	1589.1	1596.5	1598.2
15°	1574.1	1574.1	1567.9	1575.4	1575.4
17.5°	1548.4	1550.0	1542.6	1551.3	1551.3
20°	1519.8	1518.5	1513.9	1521.4	1523.0
22.5°	1485.3	1486.9	1482.4	1491.2	1492.8
25°	1450.8	1450.8	1447.6	1456.7	1455.4
27.5°	1413.1	1413.1	1408.6	1416.0	1417.7
30°	1367.9	1369.5	1367.9	1375.7	1374.1
32.5°	1326.0	1327.6	1327.6	1330.5	1331.8
35°	1277.8	1279.4	1279.4	1285.3	1285.3
37.5°	1229.7	1229.7	1231.3	1235.9	1235.9
40°	1178.6	1180.3	1180.3	1184.5	1186.1
42.5°	1128.9	1125.9	1127.6	1132.1	1132.1
45°	1072.0	1073.3	1074.9	1076.5	1076.5
47.5°	1014.7	1017.6	1019.3	1020.9	1019.3
50°	957.5	960.7	960.7	959.1	959.1
52.5°	896.0	903.5	901.9	901.9	905.1
55°	837.5	840.4	842.0	842.0	840.4
57.5°	778.6	781.8	778.6	780.2	777.3
60°	715.5	717.1	715.5	715.5	715.5
62.5°	654.0	655.3	652.4	652.4	652.4
65°	590.9	590.9	590.9	587.7	593.9
67.5°	524.6	527.5	527.5	529.1	523.3
70°	463.1	464.4	463.1	461.5	458.6
72.5°	401.3	403.0	404.3	398.4	396.8
75°	338.2	338.2	336.6	335.3	335.3
77.5°	276.8	276.8	276.8	273.5	273.5
80°	216.6	217.9	215.0	215.0	213.3
82.5°	157.7	157.7	157.7	156.4	153.2
85°	102.1	99.2	100.8	97.6	97.6
87.5°	46.5	46.5	46.5	43.6	49.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)